

## HANDY REFERENCE FOR LUMINESCENCE DATING APPLICATIONS

### \*Amorphous Quartz

Schmidt, C., and Kreutzer, S. (2013). Optically stimulated luminescence of amorphous/microcrystalline SiO<sub>2</sub> (silex): Basic investigations and potential in archeological dosimetry. *Quaternary Geochronology* 15, 1-10.

Schmidt, C., Rufer, D., Preusser, F., Krbetschek, M., and Hilgers, A. (2013). The assessment of radionuclide distribution in silex by autoradiography in the context of dose rate determination for thermoluminescence dating. *Archaeometry* 55, 407-422.

### \*Antarctica

Simms, A. R., Kouremenos, P., DeWitt, R., and Drewery, A.M. (2011). A new approach to reconstructing sea-levels in Antarctica: Using Optically Stimulated Luminescence of cobble surfaces. *Quaternary Geochronology* 6, 50-60.

### \*Arctic

Alexanderson, H., et al. (2013) An Arctic perspective on dating Mid-Late Pleistocene environmental history, Quaternary Science Reviews (in press), <http://dx.doi.org/10.1016/j.quascirev.2013.09.023>

### \*Basalt Flows

Rittenour, T. M., Riggs, N. R., and Kennedy, L. E. (2012). Application of single-grain OSL to date quartz xenocrysts within a basalt flow, San Francisco volcanic field, northern Arizona, USA. *Quaternary Geochronology* 10, 300-307.

Morthekai, P., Jain, Maynak, J., Cunha, P.P., Azevedo, J.M., and Singhvi, A.S. (2011). An attempt to correct for the fading in million year old basaltic rocks. *Geochronometria* 38 (3), 223-230.

Tsukamoto, S., Duller, G.A.T., Wintle, A.G., and Muhs, D. (2010). Assessing the potential for luminescence dating of basalts. *Quaternary Geochronology* 6, 61-70.

### \*Bioturbation

Rink, W.J., Dunbar, J.S., Tschinkel, W.R., Kwapich, C., Repp, A., Stanton, W. and Thulman, D.K. (2012). Subterranean transport and deposition of quartz by ants in sandy sites relevant to age overestimation in optical luminescence dating. *Journal of Archaeological Science* 40 (4), 2217-2226.

<http://dx.doi.org/10.1016/j.jas.2012.11.006>

Bateman, M.D., Boulter, C.H., Carr, A.S., Frederick, C.D., Peter, D. and Wilder, M. (2007). Preserving the palaeoenvironmental record in Drylands: Bioturbation and its significance for luminescence derived chronologies. *Sediment Geology* 195(1-2), 5-19.

Bateman, M.D., Boulter, C.H., Carr, A.S., Frederick, C.D., Peter, D. and Wilder, M. (2007). Detecting Post-depositional sediment disturbance in sandy deposits using optical luminescence. *Quaternary Geochronology* 2(1-4), 57-64.

Bateman, M.D., Frederick, C.D., Jaiswal, M.K. and Singhvi, A.K. (2003). Investigations into the potential effects of pedoturbation on luminescence dating. *Quaternary Science Reviews* 22, 1169-1176.

#### \*Bleaching rates of quartz and feldspar

Murray, A.S., Thomsen, K.J., Masuda, N., Buylaert, J.P., and Jain, M. (2012). Identifying well-bleached quartz using the different bleaching rates of quartz and feldspar luminescence signals. *Radiation Measurements* 47, 688-695.

Li, B., Roberts, R.G., and Jacobs, Z. (2013). On the dose dependency of the bleachable and non-bleachable components of IRSL from K-feldspar: Improved procedures for luminescence dating of Quaternary sediments. *Quaternary Geochronology* 17, 1-13.

#### \*Bricks, Castle Stones, or Mortar

Bailiff, I. K., Lacey, H. R., Coningham, R. A. E., Gunawardhana, P., Adikari, G., Davis, C. E., Manuel, M. J., and Strickland, K. M. (2013). Luminescence dating of brick stupas: an application to the hinterland of Anuradhapura, Sri Lanka. *Antiquity* 87, 189–201.

Sun, X., Lu, H., Yi, S., and Bahain, J. J. (2013). Age and paleoenvironment of Paleolithic stone artifact remains discovered in the Tengger Desert, northern China. *Journal of Arid Environments* 91, 129-137.

Tema, E., Fantino, F., Ferrara, E., Lo Giudice, A., Morales, J., Goguitchaichvili, A., Camps, P., Barello, F., and Gulmini, M. (2013). Combined archaeomagnetic and thermoluminescence study of a brick kiln excavated at Fontanetto Po (Vercelli, Northern Italy). *Journal of Archaeological Science* 40, 2025-2035.

Bouvier, A., Pinto, G., Guibert, P., Nicolas-Méry, D., and Baylé, M. (2011). Luminescence dating applied to medieval architecture: The north east tower of the Avranches Keep (Manche, France). *ArchéoSciences*, 59-68.

Blain, S., Bailiff, I. K., Guibert, P., Bouvier, A., and Baylé, M. (2010). An intercomparison study of luminescence dating protocols and techniques applied to medieval brick samples from Normandy (France). *Quaternary Geochronology* 5, 311-316.

Gueli, A. M., Stella, G., Troja, S. O., Burrafato, G., Fontana, D., Ristuccia, G. M., and Zuccarello, A. R. (2010). Historical buildings: Luminescence dating of fine grains from bricks and mortar. *Nuovo Cimento della Società Italiana di Fisica B* 125, 719-729.

#### \*Burnt Stone and Hearths

Rhodes, E.J., Fanning, P.C., Holdaway, S.J. (2010). Developments in optically stimulated luminescence age control for geoarcheological sediments and hearths in western New South Wales, Australia. *Quaternary Geochronology* 5, 348-352.

#### \*Caribbean Islands (carbonate platforms geology)

Fitzpatrick, S. M., Kaye, Q., Feathers, J., Pavia, J. A., and Marsaglia, K. M. (2009). Evidence for inter-island transport of heirlooms: luminescence dating and petrographic analysis of ceramic inhaling bowls from Carriacou, West Indies. *Journal of Archaeological Science* 36, 596-606.

#### \*Caves or Lava Tubes

Pickering, R., Jacobs, Z., Herries, A. I. R., Karkanas, P., Bar-Matthews, M., Woodhead, J. D., Kappel, P., Fisher, E., and Marean, C. W. (2013). Paleoanthropologically significant South African sea caves dated to 1.1–1.0 million years using a combination of U–Pb, TT-OSL and palaeomagnetism. *Quaternary Science Reviews* 65, 39-52.

#### \*Dental Enamel (see also teeth)

Yukihara, E.G., Mittani, J., McKeever, S.W.S., Simon, S.L. (2007). Optically stimulated luminescence (OSL) of dental enamel for retrospective assessment of radiation exposure. *Radiation Measurements* 42 (6), 1256-1260.

## **Diamonds**

Sastry, M.D., Gaonkar, M., Nagar, Y. C., Mane, S.N., Desal, S.N., Bagia, H., Ramachandran, K.T., Singhvi, A.S., (2011). Optically Stimulated Luminescence and laser excited Photoluminescence of electron beam treated (EBT) diamonds: Radiation Sensitization and potential for tissue equivalent dosimetry. *Diamond and Related Materials* 20 (8), 1095-1102

Chernov, V., Piters, T., May, P. W., Melendrez, Pedroza-Montero, M., and Barboza-Flores, M. (2010). Linear-supralinear-sublinear beta-ray dose dependences of TL, OSL and afterglow in undoped CVD diamond. *Physica Status Solidi* 207, 2125-2130.

## **\*Earthen Mounds**

Saunders, J. W., Mandel, R. D., Sampson, C. G., Allen, C. M., Allen, E. T., Bush, D. A., Feathers, J. K., Gremillion, K. J., Hallmark, C. T., Jackson, H. E., Johnson, J. K., Jones, R., Saucier, R. T., Stringer, G. L., and Virdrine, M. F. (2005). Watson Brake, a Middle Archaic mound complex in Northeast Louisiana. *Society for American Archaeology* 70, 631-668.

## **\*Electron Spin Resonance Optical Dating (ESROD)**

Burdette, K.E., Rink, W.J., Mallinson, D.J., Means, G.H., and Parham, P.R. (2013). Electron spin resonance optical dating of marine, estuarine, and aeolian sediments in Florida, USA. *Quaternary Research* 79, 66-74.

Rink, W.J., Bartoll, J., Schwarcz, H.P., Shane, P., Bar-Yo sef, O. (2007). Testing the reliability of ESR dating of optically exposed buried quartz sediments. *Radiation Measurements* 42, 1618-1626.

## **\*Fault Gouge**

Spencer, J Q., Hadizadeh J., Gratier, J-P., Doan, M-L. (2012). Dating Deep? Luminescence studies of fault gouge from the San Andreas fault zone 2.6 km beneath earth's surface. *Quaternary Geochronology* 10, 280-284.

## **\*Feldspar Dating Methods and post IR IRSL**

Kars, R. H., Busschers, F. S., and Wallinga, J. (2012). Validating post IR-IRSL dating on K-feldspars through comparison with quartz OSL ages. *Quaternary Geochronology* 12, 74-86.

Nian, X., Bailey, R. M., and Zhou, L. (2012). Investigations of the post-IR IRSL protocol applied to single K-feldspar grains from fluvial sediment samples. *Radiation Measurements* 47, 703-709.

Reimann, T., Thomsen, K. J., Jain, M., Murray, A. S., and Frechen, M. (2012). Single-grain dating of young sediments using the pIRIR signal from feldspar. *Quaternary Geochronology* 11, 28-41.

Li, G.Q., Zhao, H., and Chen, F.H. (2011). Comparison of three K-Feldspar luminescence dating methods for Holocene samples. *Geochronometria* 38 (1), 14-22.

## **\*Fluvial (terraces, tropical, old, or with surface exposure dating)**

Tseng, C.-H., Wenske, D., Böse, M., Reimann, T., Lüthgens, C., and Frechen, M. (2013). Sedimentary features and ages of fluvial terraces and their implications for geomorphic evolution of the Taomi River catchment: A case study in the Puli Basin, central Taiwan. *Journal of Asian Earth Sciences* 62, 759-768.

Hu, Z., Pan, B., Wang, J., Cao, B., and Gao, H. (2012). Fluvial terrace formation in the eastern Fenwei Basin, China, during the past 1.2 Ma as a combined archive of tectonics and climate change. *Journal of Asian Earth Sciences* 60, 235-245.

Guralnik, B., Matmon, A., Avni, Y., Porat, N., and Fink, D. (2011). Constraining the evolution of river terraces with integrated OSL and cosmogenic nuclide data. *Quaternary Geochronology* 6, 22-32.

Rittenour, T. M. (2008). Luminescence dating of fluvial deposits: applications to geomorphic, palaeoseismic, and archaeological research. *Boreas* 37, 613-635.

Jain, M., Murray A.S., Botter-Jensen L. (2004). Optically stimulated luminescence dating: how significant is incomplete light exposure in fluvial environments? *Quaternaire* 15, 143-157.

Wallinga, J. (2002). Optically stimulated luminescence dating in fluvial deposits: A review. *Boreas* 31, 303-322.

#### \***Fulgurites and Meteorites**

Sears, D. W. G., Ninagawa, K., and Singhvi, A. K. (2013). Luminescence studies of extraterrestrial materials: Insights into their recent radiation and thermal histories and into their metamorphic history. *Chemie der Erde - Geochemistry* 73, 1-37.

Biswas, R.H., Morthekai, P., Gartia, R.K., Chawla, S., and Singhvi, A.S. (2011). Thermoluminescence of the meteorite interior: A possible tool for the estimation of cosmic ray exposure ages. *Earth and Planetary Science Letters* 304 (1), 36-44.

#### \***Glacial Features**

Dehnert, A., Preusser, F., Kramers, J. D., Akcar, N., Kubik, P. W., Reber, R., and Schluchter, C. (2010). A multidating approach applied to proglacial sediments attributed to the most extensive glaciation of the Swiss Alps. *Boreas* 39, 620-632.

Houmark-Nielson, M. (2008). Testing OSL failures against a regional Weichselian glaciation chronology from southern Scandinavia. *Boreas* 37, 660-667.

Alexanderson, H., Johnsen, T., Wohlfarth, B., Naslund, J.O., and Stroeven, A. (2008). Applying the optically stimulated luminescence (OSL) technique to date the Weschelian glacial history of southern Sweden. *Reports from the Department of Physical Geography and Quaternary Geology, Stockholm University*, 48 pages.

#### \***Glacial Shearing**

Bateman, M. D., Swift, D. A., Piotrowski, J. A., and Sanderson, D. C. W. (2012). Investigating the effects of glacial shearing of sediment on luminescence. *Quaternary Geochronology* 10, 230-236.

#### \***Gypsum Dating**

Mahan, S.A. and Kay, J. (2012). Building on previous OSL dating techniques for gypsum: A case study from Salt Basin Playa, New Mexico. *Quaternary Geochronology* 10, 345-352.

O'Connor, V.A., Lepper, K., Morken, T.O., Thorstad, D.J., Podoll, A., and Giles, M.J. (2011). A survey of the signal stability and radiation dose response of sulfates in the context of adapting optical dating for Mars. *Journal of Luminescence* 131 (12), 2762-2768.

Thompson, J. W., Burdette, K. E., Inrig, E. L., DeWitt, R., Mistry, R., W.J. Rink, D.R. Boreham, (2010). Optically-stimulated luminescence dosimetry with gypsum wallboard (drywall). *Radiation Protection Dosimetry*, 141 (1), 1-9.

#### \***Limestone Statues and Terracotta**

Bouquillon, A., Zink, A., and Porto, E. (2010). The Louvre Tanagras in the light of scientific analysis. Authenticity, Materials, Provenances: In "Tanagras -Figurines for life and eternity - The musee du louvre's collection of Greek figurines" (V. Jeammet, Ed.), 286-309. Fundacion Bancaria Valencia.

Zink, A. and Porto, E. (2005). Luminescence dating of the Tanagra terracottas of the Louvre collections.

*Geochronometria* 24, 21-26.

Liritzis, I., Singhvi, A.S., Feathers, J., Wagner, G.A., Kadereit, Zacharias, N., and Li, S-H. (2013). Luminescence Dating in Archeology, Anthropology, and Geoarcheology, Springer Briefs in Earth System Sciences. Springer-Verlag, 70 p.

#### \***Limnic Sediments**

Kadereit, A., DeWitt, R., & Johnson, T. C. (2012). Luminescence properties and optically (post-IR blue-light) stimulated luminescence dating of limnic sediments from northern Lake Malawi Chances and limitations. *Quaternary Geochronology* 10, 160-166.

#### \***Linearly Modulated OSL**

Chen, R., Pagonis, V., and Lawless, J. L. (2009). A new look at the linear-modulated optically stimulated luminescence (LM-OSL) as a tool for dating and dosimetry. *Radiation Measurements* 44, 344-350.

Singarayer, J. S. and Bailey, R. M. (2003). Further investigation of the quartz optically stimulated luminescence components using linear modulation. *Radiation Measurements* 37, 451-458.

#### \***Liquefaction Resetting (i.e. sand blows or soft sediment deformation)**

Porat, N., Levi, T., and Weinberger, R. (2007). Possible resetting of quartz OSL signals during earthquakes—Evidence from late Pleistocene injection dikes, Dead Sea Basin, Israel. *Quaternary Geochronology* 2, 272-277.

#### \***Lunettes**

Rich, J. (2013). A 250,000-year record of lunette dune accumulation on the Southern High Plains, USA and implications for past climates. *Quaternary Science Reviews* 62, 1-20.

#### \***Mima or “pimple” mounds**

Seifer, C., Cox, R., Forman, S., Foti, T., Wasklewicz, T., & McColgan, A. (2009). Relict nebkhlas (pimple mounds) record prolonged late Holocene drought in the forested region of south-central United States. *Quaternary Research* 71 (3), 329-339.

#### \***Modern Signals from Debris Flows**

Wu, T.-S., Jaiswal, M. K., Lin, Y. N., Chen, Y.-W., and Chen, Y.-G. (2010). Residual luminescence in modern debris flow deposits from western Taiwan: A single grain approach. *Journal of Asian Earth Sciences* 38, 274-282.

#### \***Obsidian Hydration and OSL**

Liritzis, I. (2010). Strofilas (Andros Island, Greece): new evidence for the cycladic final neolithic period through novel dating methods using luminescence and obsidian hydration. *Journal of Archaeological Science* 37, 1367-1377.

#### \***Paleoearthquakes (TL)-summary papers**

Fattah, M. (2009). Dating past earthquakes and related sediments by thermoluminescence methods: a review. *Quaternary International* 199 (1-2), 104-146.

#### \***Paleoearthquakes (OSL)-long-term study**

Vanneste, K., Verbeeck, K., Camelbeeck, T. (2008). A decade of paleoseismic research in the Roar Valley graben. Seismic Risk 2008-Earthquakes in North-western Europe, 57-64.

### \***Plagioclase Dating**

Sohbati, R., Murray, A., Jain, M., Thomsen, K., Hong, S.-C., Yi, K., and Choi, J.-H. (2013). Na-rich feldspar as a luminescence dosimeter in infrared stimulated luminescence (IRSL) dating. *Radiation Measurements* 51–52, 67-82.

### \***Portable OSL Experiments**

Muñoz-Salinas, E., Bishop, P., Sanderson, D. C. W., and Zamorano, J.-J. (2011). Interpreting luminescence data from a portable OSL reader: three case studies in fluvial settings. *Earth Surface Processes and Landforms* 36, 651-660.

Munyikwa, K., Brown, S., and Kitabwalla, Z. (2012). Delineating stratigraphic breaks at the bases of postglacial eolian dunes in central Alberta, Canada using a portable OSL reader. *Earth Surface Processes and Landforms* 37, 1603-1614.

### \***Pottery**

Czopek, S., Kusiak, J., and Trybała-Zawiślak, K. (2013). Thermoluminescent dating of the Late Bronze and Early Iron Age pottery on sites in Kłyżów and Jarosław (SE Poland). *Geochronometria* 40, 113-125.

Altay Atlıhan, M., Şahiner, E., and Soykal Alanyali, F. (2012). Dose estimation and dating of pottery from Turkey. *Radiation Physics and Chemistry* 81, 594-598.

Khasswneh, S., al-Muheisen, Z., and Abd-Allah, R. (2011). Thermoluminescence dating of pottery objects from Tell Al-Husn, northern Jordan. *Mediterranean Archaeology & Archaeometry* 11, 41-49.

### \***Pulsed OSL/Time-Resolved OSL**

Feathers, J. K., Casson, M. A., Schmidt, A. H., and Chithambo, M. L. (2012). Application of pulsed OSL to polymimetallic fine-grained samples. *Radiation Measurements* 47, 201-209.

Ankaergaard, C., Jain, M., thomsen, K.J., and Murray, A.S. (2010). Optimising the separation of quartz and feldspar optically stimulated luminescence using pulsed excitation. *Radiation Measurements* 45, 778-785.

Ankjærgaard, C., Jain, M., Kalchgruber, R., Lapp, T., Klein, D. M. , S.W.S. McKeever, A.S. Murray, P. Mortheekai, (2009). Further investigations into pulsed optically stimulated luminescence from feldspars using blue and green Light. *Radiation Measurements*, 44, 576-581.

### \***Radioluminescence**

Pagonis, V., Chithambo, M. L., Chen, R., Chruscinska, A., Fasoli, M., Li, S. H., Martini, M., and Ramseyer, K. (in press). Thermal Dependence of Luminescence Lifetimes and Radioluminescence in Quartz. *Journal of Luminescence*, <http://dx.doi.org/10.1016/j.jlumin.2013.07.022>.

Lapp, T., Jain, M., Thomsen, K. J., Murray, A. S., and Buylaert, J.-P. (2012). New luminescence measurement facilities in retrospective dosimetry. *Radiation Measurements* 47, 803-808.

### \***Red TL**

Ganzawa, Y. (2010). Red thermoluminescence (RTL) sensitivity change in quartz. *Radiation Measurements* 45, 985-990.

### \***Shell Middens**

Bateman, M. D., Carr, A. S., Murray-Wallace, C. V., Roberts, D. L., and Holmes, P. J. (2008). A dating intercomparison study on Late Stone Age coastal midden deposits, South Africa, *Geoarchaeology* 23, 715-873.

### \***Skulls and Large Bone Cavities of Animals and Humans**

Li, H., Wu, X., Li, S., Huang, W., and Liu, W. (2010). Late Pleistocene human skull from Jingchuan, Gansu Province. *Chinese Science Bulletin* 55, 1047-1052.

### \***Soils and Paleosols**

Fedorowicz, S., Łanczont, M., Bogucki, A., Kusiak, J., Mroczek, P., Adamiec, G., Bluszcz, A., Moska, P., and Tracz, M. (2013). Loess-paleosol sequence at Korshiv (Ukraine): Chronology based on complementary and parallel dating (TL, OSL), and litho-pedosedimentary analyses. *Quaternary International* 296, 117-130.

Andreucci, S., Bateman, M. D., Zucca, C., Kapur, S., Aksit, İ., Dunajko, A., and Pascucci, V. (2012). Evidence of Saharan dust in upper Pleistocene reworked palaeosols of North-west Sardinia, Italy: palaeoenvironmental implications. *Sedimentology* 59, 917-938.

Hall, S. A., and Goble, R. J. (2012). Berino Paleosol, Late Pleistocene Argillic Soil Development on the Mescalero Sand Sheet in New Mexico. *Journal of Geology* 120, 333-345.

Van Mourik, J.M., Slotboom, R.T., Wallinga, J., (2011). Chronology of plaggic deposits; palynology, radiocarbon, and optically stimulated luminescence dating of the Posteles (NE-Netherlands). *Catena* 84, 54-60.

### \***Soil Pedogenesis and OSL**

Wilkinson, M.T. and Humphreys, G.S. (2005). Exploring pedogenesis via nuclide-based soil production rates and OSL-based bioturbation rates. *Australian Journal of Soil Research* 43, 767-779.

### \***Surface Exposure Dating (using OSL)**

Sohbati, R., Jain, M., and Murray, A. (2012). Surface exposure dating of non-terrestrial bodies using optically stimulated luminescence: A new method. *Icarus* 221, 160-166.

Sohbati, R., Murray, A. S., Buylaert, J.-P., Almeida, N. A. C., and Cunha, P. P. (2012). Optically stimulated luminescence (OSL) dating of quartzite cobbles from the Tapada do Montinho archaeological site (east-central Portugal). *Boreas* 41, 452-462.

Sohbati, R., Murray, A. S., Chapot, M. S., Jain, M., and Pederson, J. (2012). Optically stimulated luminescence (OSL) as a chronometer for surface exposure dating. *Journal of Geophysical Research - Solid Earth* 117, B09202.

Sohbati, R., Murray, A. S., Jain, M., Buylaert, J.-P., and Thomsen, K. J. (2011). Investigating the resetting of OSL signals in rock surfaces. *Geochronometria* 38, 249-258.

### \***Thermal Transfer OSL (TT-OSL)**

Duller, G. A. T. and Wintle, A. G. (2012). A review of the thermally transferred optically stimulated luminescence signal from quartz for dating sediments. *Quaternary Geochronology* 7, 6-20.

Shen, Z. X., Mauz, B., and Lang, A. (2011). Source-trap characterization of thermally transferred OSL in quartz. *Journal of Physics D. Applied Physics* 44, Article. No. 295405.

Pagonis, V., Grzegorz, A., Athanassas, C., Chen, R., Baker, A., Larsen, M. and Thompson, Z. (2011). Simulations of thermally transferred OSL signals in quartz: Accuracy and precision of the protocols for equivalent dose evaluation. *Nuclear Instruments and Methods in Physics Research B* 269, 1431–1443.

### \***Thermochronology Using OSL**

Li, B., and Li, S.-H. (2012). Determining the cooling age using luminescence-thermochronology. *Tectonophysics* 580, 242-248.

Sawakuchi, A.O., Blair, M.W., DeWitt, R., Faleiros, F.M., Hypolito, T., and Guedes, C.C.F. (2011). Thermal history versus sedimentary history: OSL sensitivity of quartz grains extracted from rocks and sediments. *Quaternary Geochronology* 6, 261-272.

Herman, F., Rhodes, E.J., Braun, J., and Heiniger, L. (2010). Uniform erosions rates and relief amplitude during glacial cycles in the Southern Alps of New Zealand, as revealed from OSL-thermolochronology. *Earth and Planetary Science Letters* 297 (1-2), 183-189.

#### \***Teepee Rings, Rock Structures, Stone Pyramids,**

Feathers, J. K., (2012). Luminescence dating of anthropogenic rock structures in the northern Rockies and adjacent High Plains, North America: a progress report. *Quaternary Geochronology* 10, 399-405.

Feathers, J. K., Johnson, J., and Kembel, S. (2008). Luminescence Dating of Monumental Architecture at Chavín da Huantár, Peru. *Journal of Archaeological Method and Theory* 15, 266-296.

#### \***Teeth or Tooth Enamel**

DeWitt, R., Klein, D. M., Yukihara, E. G., Simon, S. L., and McKeever, S. W. (2010). Optically stimulated luminescence (OSL) of tooth enamel and its potential use in post-exposure triage. *Health Physics*, 98 (2), 432-439.

#### \***Violet Stimulated Luminescence**

Ankjaergaard, C., Jain, M., and Wallinga, J. (2013). Towards Dating Quaternary sediments using the quartz Violet Stimulated Luminescence (VSL) signal. *Quaternary Geochronology* 18, 99-109.

#### \***Volcanic Ash or Flows**

Lepper, K. and Goff, Fraser. (2007). Yet another attempt to date the Banco Bonito rhyolite, the youngest volcanic flow in the Valles Caldera, New Mexico. *New Mexico Geology* 29 (4), 117-121.

Biswas, R.H., Williams, M.A.J., Raj, R., Juyal, N., and Singhvi, A.S. (2013). Methodological studies on luminescence dating of volcanic ashes. *Quaternary Geochronology* 17, 14-25.

#### \***X-rays and OSL**

Davids, F., Roberts, H. M., and Duller, G. A. T. (2010). Is X-ray core scanning non-destructive? Assessing the implications for optically stimulated luminescence (OSL) dating of sediments. *Journal of Quaternary Science* 25, 348-353.

King, G. E., Finch, A. A., Robinson, R. A. J., Taylor, R. P., and Mosselmans, J. F. W. (2011). The problem of dating quartz 2: Synchrotron generated X-ray excited optical luminescence (XEOL) from quartz. *Radiation Measurements* 46, 1082-1089.

Note: We welcome improvements or suggestions to this list. We realize it is not exhaustive or comprehensive. This list was originally conceived as Appendix 3 to the 9<sup>th</sup> New World Luminescence Dating Workshop Program (Logan, UT) SAM and EGH. Completed Nov 2013.